Grade 8 Maths Rational Number Multiple Choice Questions (MCQs)

1. Associative property is not followed in (a) whole numbers (b) integers (c) natural numbers (d) none of these 2. is the identity for the addition of rational numbers. (a) 1 (b) 0 (c) -1 $(d)\frac{1}{2}$ 3. is the multiplicative identity for rational numbers. (a) 1 (b) 0 (c) -1 (d) $\frac{1}{2}$ 4. The additive inverse of $\frac{7}{5}$ is: (a) 1 (b) 0 $(C) - \frac{7}{5}$ $(d)\frac{7}{5}$ 5. What number should be added to $\frac{7}{12}$ to get $\frac{4}{15}$? $(a) - \frac{19}{60}$ (b) $-\frac{11}{30}$ (c) $\frac{51}{60}$ (d) $\frac{1}{20}$ 6. What number should be subtracted from $-\frac{3}{5}$ to get -2? (a) $-\frac{7}{5}$ (b) $-\frac{13}{5}$ (c) $\frac{13}{5}$ (d) $\frac{7}{5}$

 $\frac{-5}{16}, \frac{-13}{24}, \frac{3}{-4}, \frac{7}{-12}$ is the smallest? 7. Which of the rational numbers (a) $\frac{-5}{16}$ (b) $\frac{-13}{24}$ (c) $\frac{3}{-4}$ (d) $\frac{7}{-12}$ 8. Rational number $\frac{3}{40}$ is equal to: (a) 0.75 (b) 0.12 (c) 0.012 (d) 0.075 9. A rational number between $\frac{3}{5}$ and $\frac{4}{5}$ is (a) $\frac{7}{5}$ (b) $\frac{7}{10}$ (c) $\frac{3}{10}$ (d) $\frac{4}{10}$ 10. Find x such that $\frac{3}{5} = \frac{x}{-25}$ (a) -5 (b) -15 (c) -15 (d) none of these 11. Find x such that $\frac{-48}{x} = 2$ (a) 24 (b) -12 (c) -24 (d) none of these 12. Find x such that $\frac{-3}{8}$ and $\frac{x}{-24}$ are equivalent rational numbers. (a) 3 (b) 9 (c) 8 (d) none of these 13. Find the value of $\frac{3}{-5} \times \frac{-5}{-3}$ (a) -1 (b) 0 (c) 1 (d) none of these 14. The equivalent rational number of $\frac{-6}{5}$ is (a) $\frac{-3}{5}$

(b) $\frac{12}{10}$ (c) $\frac{-12}{10}$ (d) none of these 15. Fill in the boxes with the correct symbol: $\frac{5}{-11}\Box\frac{-5}{11}$ (a) >(b) < (c) =(d) none of these 16. Fill in the boxes with the correct symbol: $\frac{1}{-3}\Box \frac{-1}{4}$ (a) > (b) < (c) =(d) none of these 17. Rewrite the rational number $\frac{-18}{48}$ in the simplest form. (a) $\frac{-9}{24}$ (b) $\frac{-3}{8}$ (c) $\frac{3}{8}$ (d) none of these 18. Rewrite the rational number $\frac{44}{-72}$ in the simplest form (a) $\frac{22}{-36}$ (b) $\frac{11}{-18}$ (c) $\frac{11}{18}$ (d) none of these 19. Write the next rational number in the $\frac{-3}{5}, \frac{-6}{10}, \frac{-9}{15}, \frac{-12}{20}, \dots$ pattern: (a) $\frac{12}{25}$ (b) $\frac{15}{25}$ (c) $\frac{-15}{25}$ (d) none of these 20. Write the next rational number in the pattern: $\frac{-1}{6}, \frac{2}{-12}, \frac{3}{-18}, \frac{4}{-24}, \dots$ (a) $\frac{-5}{-30}$ (b) $\frac{5}{-30}$ (c) $\frac{4}{-30}$ (d) none of these

Class 8 Maths Rational Number Fill In The Blanks

1. Zero has reciprocal.

2. The numbers and are their own reciprocals.

3. The reciprocal of -5 is

4. Reciprocal of $\frac{1}{x}$, where $x \neq 0$ is

5. The product of two rational number is always a

6. The reciprocal of a positive rational number is

7. The additive inverse of $\frac{-a}{b}$ is

8. Reciprocal of $\frac{-3}{4}$ is

9. The reciprocal of a negative rational number is rational number.

10. The rational number is equal to its negative.

Class 8 Maths Rational Number Very Short Answer Type Questions

1. What is the additive inverse of $\frac{-7}{11}$?

2. What is the multiplicative inverse of $2\frac{3}{11} \times \frac{1}{3}$?

3. Which number lies between $\frac{1}{5}$ and $\frac{1}{4}$?

4. Find the product of $\frac{3}{8}$ and the reciprocal of $\frac{-5}{17}$. 5. A tailor needs $\left(\frac{9}{10}\right)^{th}$ of a metre of cloth to stitch a blouse. It he wants to stitch 100 blouses how much cloth will be needed?

6. The sum of the additive inverse and multiplicative inverse of 3 is

Class 8 Maths Rational Number Short Answer Type Questions

1. The number which is subtracted from $\frac{29}{13}$ to get $\frac{-5}{7}$ is

2. The value of x for which the two rational numbers $\frac{4}{5}$, $\frac{2}{54}$ are equivalent.

3. [₹] of all the money in Salma's bank account is ₹ 55,000. How much money does Salma have in her bank account?

4. Arrange the number $\frac{1}{4}$, $\frac{13}{16}$ and $\frac{5}{8}$ in the ascending order.

Class 8 Maths Rational Number Long Answer Type Questions

1. Simplify:

$$\frac{5}{8} + \frac{9}{2} + \left(\frac{-4}{5}\right) + \frac{7}{8} + \left(\frac{-5}{2}\right) + \frac{7}{5}$$

2. The cost of $3\frac{1}{2}$ kg of wheat is ₹ 63. How much will $1\frac{1}{4}$ kg of wheat cost? 3. Season tickets usually cost ₹ $120\frac{4}{5}$ per person. For students, they are priced at $\frac{1}{4}$ of the normal cost. How much will 6 tickets will cost for students?